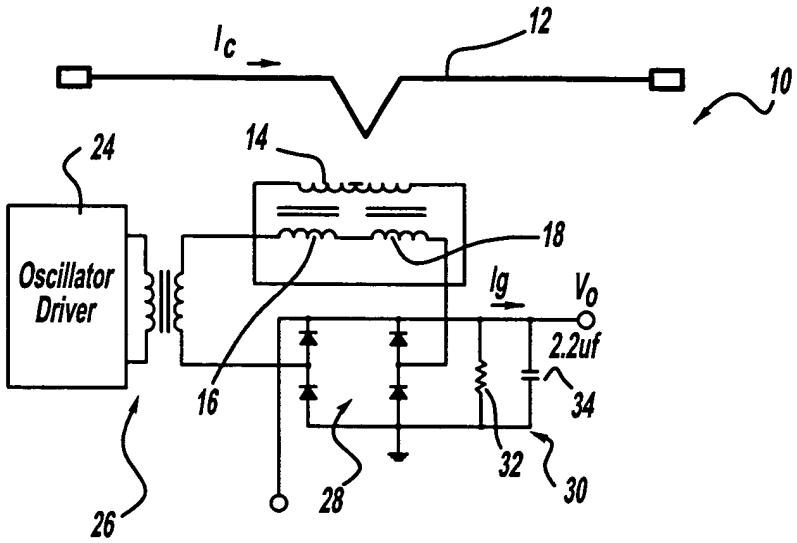

FIG - 1
Prior Art

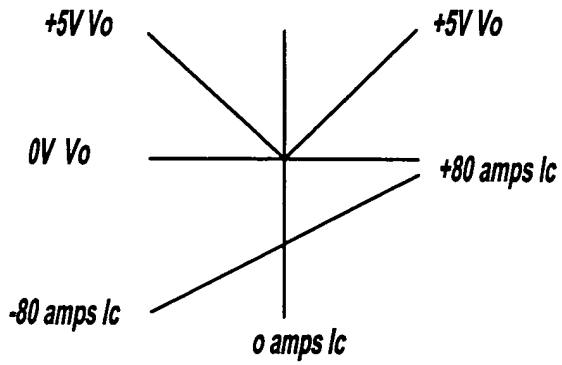

FIG - 2

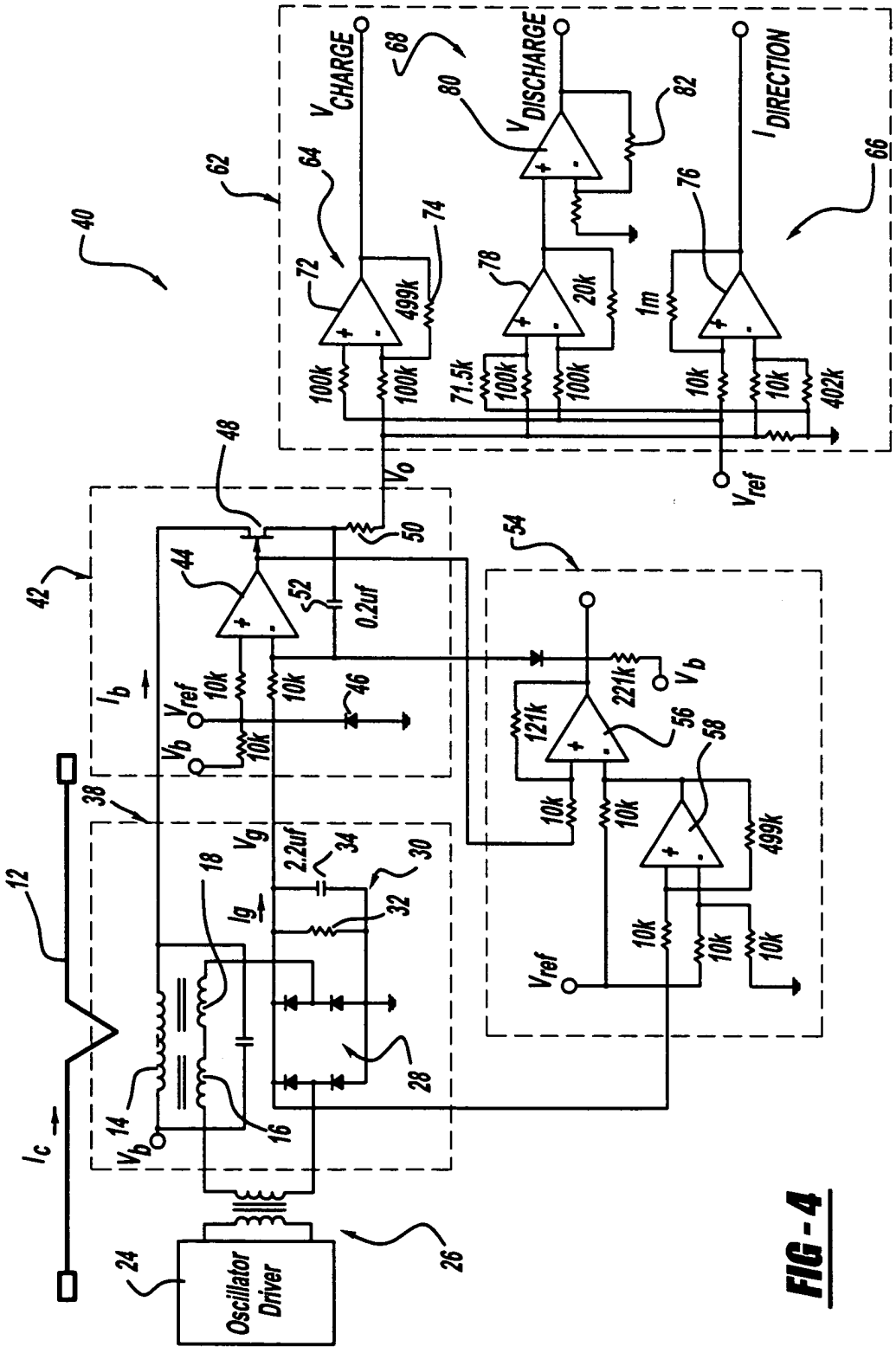
40
62
64
72
74
499k
100k
100k
68
V_{CHARGE}
80
$V_{DISCHARGE}$
78
20k
71.5k
100k
100k
82
76
1m
$I_{DIRECTION}$
66
10k
10k
402k
V_{ref}
48
V_o
50
42
44
52
0.2uf
I_b
V_{ref}
10k
10k
46
V_b
10k
54
V_b
221k
121k
56
58
10k
10k
499k
V_{ref}
10k
10k
10k
38
12
18
V_g
2.2uf
34
30
I_g
32
28
14
V_b
16
I_c
24
Oscillator Driver
26

FIG - 4

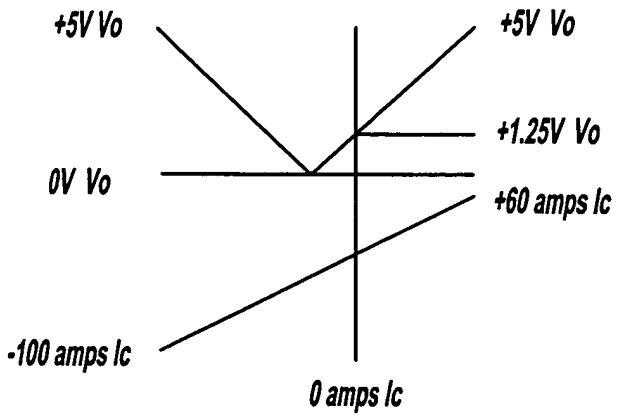
+5V Vo
+5V Vo
+1.25V Vo
0V Vo
+60 amps Ic
-100 amps Ic
0 amps Ic

FIG - 3

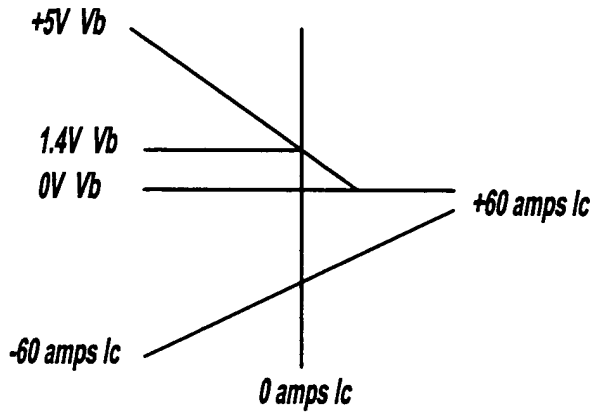
+5V Vb
1.4V Vb
0V Vb
+60 amps Ic
-60 amps Ic
0 amps Ic

FIG - 5